



## Massport Environmental Initiatives - April 2007

Massport is a national leader in embracing environmental initiatives, with one of the first and most extensive residential and school sound insulation programs in the nation, the first LEED certified airport terminal in the US; the first ISO 14001 airport, container terminal and bridge in the US; and a number of innovative air quality emission reduction programs. Brief summaries of a number of key agency-wide and Logan-specific programs are provided below.

### AGENCY-WIDE

#### **Massport Environmental Policy**

2000 policy outlining Massport's commitment to operate all of its facilities in an environmentally sound and responsible manner.

#### **Massport Sustainability Plan/Sustainable Design Initiatives**

In 2004, Massport developed its first Sustainability Plan, building on the 2000 Environmental Policy. The Plan established an internal sustainability team, established short-term and long range goals related to reducing emissions and waste, as well as increasing the use of alternative fuels. The Plan also formalized the environmental management system (EMS) priorities and tracking mechanisms.

#### **LEED® Goals**

Massport embraced sustainable design and construction well before the U.S. Green Building Council's LEED® program became a household term. In 1999, Massport required the new Terminal A to incorporate green building practices. This resulted in Terminal A becoming the nation's 1st LEED®-certified terminal in 2006. The new Signature replacement general aviation facility is expected to be the next LEED® building at Logan. The Hancock/Manulife building on Massport property is one of the first LEED® buildings in South Boston. Massport has incorporated LEED® goals in all new development and redevelopment projects for the past several years.

#### **Recycling initiatives**

The initial phase of Logan's new recycling program was rolled out in Terminal A in 2005 and the Logan Office Center in 2006 and includes recycling of mixed paper and plastic, aluminum and glass (PAG). The program will be rolled out in all passenger areas of the other terminals later this year. The primary goal is to reduce Logan's solid waste.

#### **Energy management/conservation**

Massport's energy management efforts have focused on energy consumption reduction, lowering energy costs for both the Authority and its tenants, ensuring greater energy security and reliability and reducing environmental impacts from energy consumption. Based on survey data of electricity consumption at terminal buildings by the Clean Airport Partnership, Logan Airport's terminals rank among the top three (3) airports for most efficient terminal buildings. As part of our energy commodity purchases, we buy 1.5% of total Authority electricity supply from Large Hydro sources. In addition, substantial capital investments in energy efficiency have been made, including: lighting retrofits, chilled water variable speed pumping, variable speed drives and automated building controls.

#### **AltWheels Festival**

Massport has supported and sponsored AltWheels since it began considering alternative fuels and sustainable transportation modes in 2003. Historical involvement includes financial sponsorship, staff presentations at an MIT symposium, exhibiting Massport altfuel vehicles on Fleet Day and hosting an exhibit booth for the festival duration. Massport CNG shuttle buses transport attendees between designated locations (e.g., MBTA stations) and the festival site.

#### **EMS/ISO 14001/Environmental Management Systems**

International Standards Organization (ISO) 14001 certification is focused on minimizing harmful effects on the environment caused by its activities, and achieving continual environmental performance improvement. ISO certification is one element of Massport's comprehensive strategy to ensure that all Massport facilities are operated in an environmentally sound and responsible manner. An Environmental

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Management System (EMS) is a tool that enables an organization to control the impacts of its activities and services on the environment. The EMS initiatives support Massport's overall corporate goal of becoming a sustainable organization. In 2001 Hanscom Field was the first US airport to obtain ISO 14001 Certification for their EMS. In 2003 the Conley Container Terminal was ISO certified and that facility has installed oxidation catalysts on a number of tractors and reach stackers. More than 100 vehicles and pieces of maritime equipment use ultra-low sulfur diesel fuel. In February 2006, the Tobin Memorial Bridge became the first bridge in the nation to receive ISO certification. In December 2006, Logan's Field Maintenance Facility was ISO certified. EMS's for additional Logan facilities are currently under development.

### LOGAN AIRPORT

#### **Annual Environmental Reporting (EDR/ESPR Process)**

Since 1979, Massport has prepared annual environmental reports describing the status of operational and environmental conditions at Logan. These documents provide the framework for cumulative impact assessment of airport operations.

#### **Logan Air Quality Initiative (AQI)**

Massport's 15-year voluntary emissions reduction initiative to maintain NOx emissions at or below 1999 levels.

#### **High Occupancy Vehicle (HOV) Goals**

Massport's long-range goal to reduce reliance on travel to Logan in single occupancy vehicles. Currently, 31% of all passenger/employee trips are in HOV; this is second only to the San Francisco International Airport for US airport HOV ridership. The Logan Express services are a key component of this program and Massport undertakes employee and passenger surveys periodically to track achievement of this goal.

#### **Logan Airport Silver Line Service**

Massport has entered into a \$30 million, 10-year cooperative program with the MBTA to provide Silver Line service to each airport terminal. The most recent phase of this collaboration was the late 2006 installation of CharlieCard machines in all terminals.

#### **10,000,000 CNG Bus miles**

In 2006, Logan's 33 shuttle buses logged their 10-millionth clean air mile. Logan also houses one of the largest CNG fueling stations in New England.

#### **CleanAir Cabs participant**

In cooperation with the City of Boston, Massport is implementing a new incentive program for CleanAir cabs, commencing in the Spring 2007 with head-of-line taxi pool privileges.

#### **Logan Clean Vehicle Preferred Parking Program**

An incentive to Logan passengers to drive to the airport in clean fuel vehicles, when high occupancy vehicle (HOV) opportunities do not fit individual travel plans.

#### **400 HZ power at all gates**

As part of the Logan Modernization program, Massport installed 400 HZ power at all aircraft gates to minimize use of aircraft auxiliary power units (APU) and their associated emissions.

